CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/RS/W.No.12/CSR-03/608g/CEMENT/2018-19 Date: 02.04.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivaram,** No.4/13, Avalamam Choultry Layout, Magadi Road, Bangalore – 25.
* Name of Work	:	Improvements to roads & drains at Shettyhalli old village in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/286/2017-18 Dated: 14.03.2018
* Sample ID	:	Cement
Sample Received on	:	31.03.2018
Period of Testing	:	31.03.2018 to 02.04.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Technical Manager

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Job No.: CTCE/BBMP/RS/W.No.12/CSR-03/608g/SAND-Gradation/2018-19 02.04.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. R. Shivaram,** No.4/13, Avalamam Choultry Layout, Magadi Road, Bangalore – 25.
* Name of Work	: Improvements to roads & drains at Shettyhalli old village in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: EE/DD/WO/286/2017-18 Dated: 14.03.2018
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 31.03.2018
Date of Testing	: 02.04.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.00	90-100	90-100	90-100	95-100
2.36	79.00	60-95	75-100	85-100	95-100
1.18	59.00	30-70	55-90	75-100	90-100
600 Micron	36.00	15-34	35-59	60-79	80-100
300 Micron	19.50	5-20	8-30	12-40	15-50
150 Micron	7.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-II specific limits.

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ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/RS/W.No.12/CSR-03/608g/AGG/GR/2018-19 02.04.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivaram,** No.4/13, Avalamam Choultry Layout, Magadi Road, Bangalore – 25.
* Name of Work	:	Improvements to roads & drains at Shettyhalli old village in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/286/2017-18 Dated: 14.03.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	31.03.2018
Date of Testing	:	02.04.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.34	95-100	85-100
20	38.10	30-70	0-20
10	15.06	10-35	0-5
4.75	3.06	0-5	-

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Remarks : This sample is under graded specific limits.

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಕೆ.ಎಂ. ರಸ್ತೆ, ಕೋಂಡ್ರನಗರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/RS/W.No.12/Steel/2018-19

04.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivaram,** No.4/13, Avalamam Choultry Layout, Magadi Road, Bangalore – 25.
* Name of work	:	Improvements to roads & drains at Shettyhalli old village in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/286/2017-18 Dated: 14.03.2018
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	04.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	513	554	13.1	O.K	O.K

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Job No.: CTCE/BBMP/RS/W.No.12/Steel/2018-19 04.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivaram,** No.4/13, Avalamam Choultry Layout, Magadi Road, Bangalore – 25.
* Name of work	:	Improvements to roads & drains at Shettyhalli old village in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/286/2017-18 Dated: 14.03.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	04.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	518	559	13.35	O.K	O.K

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Job No.: CTCE/BBMP/RS/W.No.12/Steel/2018-19 04.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivaram,** No.4/13, Avalamam Choultry Layout, Magadi Road, Bangalore – 25.
* Name of work	:	Improvements to roads & drains at Shettyhalli old village in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/286/2017-18 Dated: 14.03.2018
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	04.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	522	564	13.5	O.K	O.K

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Job No.: CTCE/BBMP/RS/W.No.12/CSR-03/608g/Cube/2018-19 05.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivaram,** No.4/13, Avalamam Choultry Layout, Magadi Road, Bangalore – 25.
* Name of the work	:	Improvements to roads & drains at Shettyhalli old village in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/286/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28th day
Sample Received on	:	05.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2018	05.05.2018	8.115	498.6	22.16
2	07.04.2018	05.05.2018	8.260	526.8	23.41
3	07.04.2018	05.05.2018	8.310	532.4	23.66

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Job No.: CTCE/BBMP/RS/W.No.12/CSR-03/608g/Cube/2018-19 05.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Shivaram,** No.4/13, Avalamam Choultry Layout, Magadi Road, Bangalore – 25.
* Name of the work	:	Improvements to roads & drains at Shettyhalli old village in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/286/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2018	05.05.2018	8.110	493.5	21.93
2	07.04.2018	05.05.2018	8.220	505.6	22.47
3	07.04.2018	05.05.2018	8.308	512.4	22.77

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